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**FUNCTIONAL CHECK FLIGHT/
OPERATIONAL CHECK FLIGHT**

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This instruction provides a standard procedure for the accomplishment of all aircraft functional check flight (FCF), and operational check flight (OCF) requirements. It applies to all 910th Airlift Wing personnel having duties involving FCF's and OCF's. It also carries out the procedures in AFI 21-101, *Maintenance Management of Aircraft*, AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*, AFI 11-401, *Flight Management*, AFI 11-206, *General Flight Rules*, TOs 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks*, 1C-130H-1, *Flight Manual*, 1C-130E(H)-6CL-1, *FCF Checklists*, 1C-130E(H)-6CF-1, *Acceptance and Functional Check Flight Procedures*, 1C-130A-6, *Special Inspections* and 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures*.

SUMMARY OF REVISIONS

This revision reaccomplished, changed paragraph numbers and/or added paragraphs as shown: Paragraphs **2.1**, **2.2**, **3.3**, **3.5**, **4**, **5**, **5.1**, **5.3**, **6.1**, **6.2**, **6.3**. Additional changes were made to the Title also. A (I) indicates revisions from the previous edition.

1. Definition:

1.1. Functional check flight (FCF) that occurs after inspections, maintenance or acceptance of aircraft to insure the aircraft is airworthy and capable of accomplishing the mission. Requirements are per Technical Order 1C-130A-6 or a decision exercised by commanders.

2. Responsibilities.

2.1. The Maintenance Group Commander, through Quality Assurance (MXQ), will provide supervision and administration of all functional check flights (FCF) and/or operational check flights (OCF).

2.2. Maintenance Operations Center (MOC) informs Plans and Scheduling of any FCF/OCF. MOC will then coordinate the FCF/OCF with Quality Assurance and Plans and Scheduling. Quality Assurance sends the memorandum to the 910th Operations Group Commander (OG/CC) and to MOC establishing the FCF/OCF information and point of contact (POC).

2.3. The OG/CC is responsible for reviewing and ensuring qualified aircrews are performing the FCF.

3. Procedures.

3.1. Reference TO 1-1-300: Check flights will be conducted by the minimum aircrew required to perform check flight duties or accomplish in-flight requirements. Check flights will be accomplished without cargo and/or nonessential passengers.

3.2. Weight and Balance: DD Form 365-4, **Weight and Balance Clearance Form-F Transport**, will be accomplished for each flight.

3.3. Inspection and Preparation of Aircraft Maintenance Records: After the preflight has been accomplished, the crew chief will provide Quality Assurance the present and transcribed AFTO Form 781A, **Maintenance Discrepancy and Work Document**. Quality Assurance will review the records to determine that the necessary maintenance and inspections have been accomplished and required entries or transcription have been completed.

3.4. Fuel Load: Standard fuel load for FCF's is 28,000 pounds. The aircraft commander will determine if more or less fuel will be required for the planned flight profile.

3.5. Scheduling of OCFs and FCFs: MOC will notify Quality Assurance when the aircraft is ready. Plans and Scheduling will coordinate with the Operations Group to schedule a crew. After the FCF aircrew has been scheduled, Plans and Scheduling will confirm the date and time with MOC. MOC will then notify Quality Assurance.

4. Functional Check Flight (FCF)/Operational Check Flight (OCF) Crew Briefs: Prior to the flight engineers preflight, the aircraft commander, co-pilot, navigator (if required), flight engineer and loadmaster will report to Quality Assurance to review the forms and the planned flight profile. Quality Assurance will brief all maintenance discrepancies that are pertinent to the FCF/OCF crew prior to release of the aircraft AFTO Forms 781.

5. Control and Accomplishment of FCF/OCF.

5.1. The FCF flight profile will be planned to accomplish checks of those aircraft systems marked in the T.O. 1C-130E(H)-6CL-1 checklist. Quality Assurance will number the FCF checklist TO 1C-130E(H)-6CL-1 consecutively, using the last two digits of the current year followed by a dash and a number starting with "01" for the first FCF accomplished for the year. Numbering will continue in this order until the end of the calendar year (i.e., 00-01, 00-49, 00-70).

5.2. When OCFs are accomplished to check specific equipment or systems, only applicable portions of the checklist will be used. OCFs will be flown by experienced aircrews (not required to be an FCF qualified aircrew) and will be accomplished following the same maintenance criteria as FCFs.

5.3. Each crew member will carefully evaluate each FCF checklist (T.O. 1C-130E(H)-6CL-1) item relative to crew position, record all discrepancies discovered on the AFTO Form 781A, and sign the "Discovered By" block per TO 00-20-1. All discrepancies found must be annotated in the aircraft

forms in detail to assist in the maintenance action. Quality Assurance will assign job control numbers to discrepancies discovered during FCF.

5.4. High-speed taxi checks will be accomplished only with Maintenance Group Commander's approval.

6. Completion of the FCF.

6.1. Upon completion of the FCF, the aircrew will return the completed checklist TO 1C-130E(H)-6CL-1 and the aircraft forms to Quality Assurance. Quality Assurance will debrief the crew, review the checklist and aircraft forms for accuracy and ensure all required AFTO forms have been completed. If the aircraft commander has determined that all aircraft systems have met the criteria in TO 1C-130E(H)-6CL-1, the aircraft commander will release the aircraft. Once the aircraft has been released, Quality Assurance will forward the checklist to Plans & Scheduling to be filed in the aircraft document file. If the aircraft commander does not release the aircraft, maintenance and aircrew will discuss the discrepancies and the aircraft will be scheduled for another FCF.

6.2. Quality Assurance will review the AFTO Forms 781A, after corrective actions for FCF discrepancies are complete.

6.3. Aircraft Disposition on Completion of FCF: In the event additional maintenance or flight checks are necessary, the aircraft will be returned to the responsible section (i.e., Flight Line, Inspection Section) through Quality Assurance.

6.4. FCF aborts: All ground aborts result in a non-release. An aircraft may be released for flight if a malfunction occurs during an FCF, which is not related to the condition generating the FCF, and the original condition checks good.

7. Transit Aircraft Requirements.

7.1. The owning organization provides the FCF aircrews to accomplish the FCF otherwise all rules apply to the transit aircraft as it would to a unit C-130 aircraft.

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Commander